

## **WHAT IS CLAIMED IS:**

1. A vertical adjustment apparatus attachable to a work station by a keyboard mechanism, the apparatus comprising:

a base tray attachable to the keyboard mechanism;

an upper tray to support a device at an adjustable height above the base tray;

a first leg having an upper end functionally associated with the upper tray and a lower end slidably associated with the lower tray; and

a second leg having a lower end functionally associated with the base tray and an upper end slidably associated with the upper tray,

wherein the predetermined height may be adjusted from a first height to accommodate a user utilizing the device in a seated position, to a second height to accommodate the user in a standing position.

2. The vertical adjustment apparatus of claim 1 wherein a keyboard tray is attached to the upper tray, the device being a keyboard resting in the keyboard tray.

3. The vertical adjustment apparatus of claim 1 in which the upper end of the first leg is pivotally attached to the upper tray and the lower end of the second leg is pivotally attached to the base tray.

4. The vertical adjustment apparatus of claim 3 further comprising locking means to selectively lock the upper tray at a predetermined height above the base tray,

5. The vertical adjustment apparatus of claim 4 in which the locking means comprises:

a member pivotally attached to the first leg, the member having at least one notch; and

a post in the second leg to selectively engage one of the at least one notches to selectively lock the upper tray at a predetermined height.

6. The vertical adjustment apparatus of claim 4 in which the locking means comprises:

a rod running parallel with the channel in the upper member; and

a slidable member attached to the upper tray and circumscribing the rod, and selectively engaging the rod.

7. The vertical adjustment apparatus of claim 6, in which the slidable member comprises at least one toggle circumscribing the rod such that the slidable member is moveable along the rod when the toggle is in a first position, and the slidable member is locked on the rod when the toggle is in a second position.

8. The vertical adjustment apparatus of claim 7, in which the toggle is held in the second position by a spring-loaded pin mating with a hole in the slidable member.

9. The vertical adjustment apparatus of claim 1 in which the first and second legs are moveably attached at a pivot.

10. The vertical adjustment apparatus of claim 9 in which the locking means comprises a frustoconical member functionally associated with the pivot.

11. The vertical adjustment apparatus of claim 10, in which the frustoconical member further comprises:

a first locking member having teeth; and

a second locking member having teeth,

the teeth of the first locking member adapted to interlock with the teeth in the second locking member when the frustoconical member is in a first locking

position, the first locking member being rotatable relative to the second locking member when the frustoconical member is in a second free position, the height of the upper tray being adjustable when the frustoconical member is in the second free position.

12. The vertical adjustment apparatus of claim 11, further comprising a spring to bias the frustoconical member toward the first locking position and a pin adapted to connect the first and second locking members.

13. The vertical adjustment apparatus of claim 10 further comprising:  
at least one base channel in the base tray, the lower end of the first leg having a first rod to slidably engage the at least one base channel; and  
at least one upper channel in the upper tray, the upper end of the second leg having a second rod to slidably engage the at least one upper channel.

14. The vertical adjustment apparatus of claim 13 further comprising power means to elevate the upper tray over the lower tray.

15. The vertical adjustment apparatus of claim 14 in which the power means comprises a pneumatic device connectable between the upper and lower trays.

16. The apparatus of claim 15 in which the pneumatic device comprises a gas lift device.

17. The vertical adjustment apparatus of claim 14 in which the power means comprises a rotatable lead screw functionally associated with the base tray, the lower end of the first leg being attachable to the thread of the lead screw by attachment means, the lower end of the first leg moving linearly along the lead screw as the lead

screw is rotated, the movement of the first leg acting to change the height of the upper tray over the base tray.

18. The vertical adjustment apparatus of claim 17 in which the lead screw is selectively rotatable by an electric motor.

19. The vertical adjustment apparatus of claim 1 in which the base tray and the upper tray are structurally identical.

20. The vertical adjustment apparatus of claim 1 further comprising:

a third leg having an upper end functionally associated with the upper tray and a

lower end slidably associated with the lower tray; and

a fourth leg having a lower end functionally associated with the base tray and an

upper end slidably associated with the upper tray.

21. The vertical adjustment apparatus of claim 20 in which the upper end of the third leg is pivotally attached to the upper tray and the lower end of the fourth leg is pivotally attached to the base tray.

22. A vertical adjustment elevation device for a desk, comprising:

an upper tray to support a keyboard at an adjustable height above the desk;

a first leg having an upper end functionally associated with the upper tray and a

lower end slidably associated with the desk; and

a second leg having a lower end functionally associated with the base tray and

an upper end slidably associated with the upper tray,

wherein the predetermined height may be adjusted from a first height to

accommodate a user utilizing the keyboard in a seated position, to a

second height to accommodate the user in a standing position.

23. The apparatus of claim 22 further comprising a base tray, the lower end of the first leg slidably associated with the base tray, the lower end of the second leg pivotally attached to the base tray..

24. A method of elevating a device, comprising:  
providing an apparatus having,

a base tray attachable to a keyboard mechanism,

an upper tray to support the device at an adjustable height above the base tray,

a first leg having an upper end functionally associated with the upper tray and a

lower end slidably associated with the lower tray, and

a second leg having a lower end functionally associated with the base tray and

an upper end slidably associated with the upper tray,

wherein the predetermined height may be adjusted from a first height to accommodate a user utilizing the device in a seated position, to a second height

to accommodate the user in a standing position; and

moving upper tray from the first height to the second height.

25. The method of claim 25, further comprising:

locking the upper tray at the second height.

26. The method of claim 25 further comprising:

powering the upper tray to the second height by a pneumatic device.